

**Abstract**

The invention relates to methods of identifying and characterizing properties of polymers to provide information about the polymer such as the charge of the polymer, the number and types or characteristics of units of the polymer and the sequence of the polymers.

5 The invention also relates to methods of sequencing polymers such as nucleic acids, polypeptides and polysaccharides and methods for identifying a polysaccharide-protein interaction.

10

15

20

25

30

35

40 Doc. No. 451291